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8/22/00IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Linsley, Peter et al. Examiner: Not yet known
Serial No.: 09/454,651 Group Art Unit: 1646
Filed: December 6, 1999 Docket No.: 30436.30USD1
Title: CTLA-4 MOLECULES AND IL4-BINDING MOLECULES AND USES
THEREOF

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on July 28, 2000.


By: Richelle Ann Domingo

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(d))

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner. They are as follows:

- U.S. Patent No. 4,683,195, July 28, 1987, Mullis et al. (Exhibit 1)
- U.S. Patent No. 4,683,202, July 28, 1987, Mullis. (Exhibit 2)
- U.S. Patent No. 4,399,216, August 16, 1983, Axel. (Exhibit 3)
- Janeway, "Approaching The Asymptote? Evolution And Revolution Immunology," *Cold Spring Harbor Symp. Quant. Biol.*, 1989, LIV:1-13. (Exhibit 4)
- Shaw and Shimuzu, "Two Molecular Pathways Of Human T Cell," *Current Opinion in Immunology*, 1988, 1:92-97. (Exhibit 5)
- Hemler, "Adhesive Protein Receptors On Hematopoietic Cells," *Immunology Today*, 1988, 9:109-113. (Exhibit 6)

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- Mckenzie, "Alloantigen Presentation By B Cells - Requirement for IL-1 And IL-6," *J. Immunol.*, 1988, 141:2907-2911. (Exhibit 9)
- Hawrylowicz and Unaue, "Regulation of Antigen-Presentation-I IFN- γ Induces Antigen-Presenting Properties On B Cells," *J. Immunol.*, 1988, 141:4803-4088. (Exhibit 10)
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- Moingeon et al., "CD2-Mediated Adhesion Facilitates T Lymphocyte Antigen Recognition Function," *Nature*, 1988, 339:312-314. (Exhibit 15)

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- Staunton et al., "Functional Cloning Of ICAM-2, A Cell Adhesion Ligand For LFA-1 Homologous To ICAM-1," *Nature*, 1989, 339:61-64. (Exhibit 17)
- Norment et al., "Cell-Cell Adhesion Mediated By CD8 And MHC Class I Molecules," *Nature*, 1988, 336:79-81. (Exhibit 18)
- Doyle and Strominger, "Interaction Between CD4 And Class II MHC Molecules Mediates Cell Adhesion," *Nature*, 1987, 330:256-259. (Exhibit 19)
- Stoolman, "Adhesion Molecules Controlling Lymphocyte Migration," *Cell*, 1989, 56:907-910. (Exhibit 20)
- Brescher and Cohn, "A Theory Of Self-Nonself Discrimination," *Science*, 1970, 169:1042-1049. (Exhibit 21)
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- June et al., "T-Cell Proliferation involving The CD28 Pathway Is Associated With Cyclosporine-Resistant Interleukin 2 Gene Expression," *Mol. Cell. Biol.*, 1987, 7:4472-4481. (Exhibit 32)
- Thomopson et al., "CD28 Activation Pathway Regulates The Production Of Multiple T-Cell-Derived Lymphocytes/Cytokines," *Proc. Natl. Acad. Sci.* 1989, 86:1333-1337. (Exhibit 33)
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- Lesslauer et al., "T90/44 (9.3 Antigen). A Cell Surface Molecule With A Function In Human T Cell Activation," *Eur. J. Immunol.*, 1986, 16:1289-1296. (Exhibit 36)
- Linsley et al., "T-Cell Antigen CD28 Mediates Adhesion With B Cells By Interacting With Activation Antigen B/7BB-1," *Proc. Natl. Acad. Sci. USA*, 1990, 87:5031-5035. (Exhibit 37)
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- Kohno et al., "CD 28 Molecule As a Receptor-like Function For Accessory Signals In Cell-Mediated Augmentation Of IL-2 Production," *Cell. Immunol.*, 1990, 131:1-10. (Exhibit 39)
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- Brunet et al., "A Differential Molecular Biology Search For Genes Preferentially Expressed In Functional T Lymphocytes: The CTLA Genes," *Immunol. Rev.*, 1988, 103:21-36. (Exhibit 41)
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- Storb, "Marrow Transplantation for Severe Aplastic Anemia: Methotrexate For Prevention Of Acute Graft-Versus-Host Disease," *Blood*, 1986, 56:119-125. (Exhibit 46)
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- Seed and Aruffo, "Molecular Cloning Of the CD2 Antigen, The T-Cell Erythrocyte Receptor, By A Rapid Immunoselection Procedure," *Proc. Natl. Acad. Sci.*, 1987, 84:3365-3369. (Exhibit 49)
- Aruffo and Seed, "Molecular Cloning Of Two CD7 (T-Cell Leukemia Antigen) cDNAs By A COS Cell Expression System," *EMBO Jour.*, 1987, 6:3313-3316. (Exhibit 50)
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- Schneck et al., "Inhibition Of An Allospecific T Cell Hybridoma by Soluble Class I Proteins And Peptides : Estimation Of The Affinity Of A T Cell Receptor for MHC," *Cell*, 1989, 56:47-55. (Exhibit 56)
- Recny et al., "Structural and Functional Characterization Of The CD2 Immunoadhesion Domain," *J. Biol. Chem.*, 1990, 265:8542-8549. (Exhibit 57)
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- DiMinno et al., "Exposure Of Platelet Fibrinogen-Binding Sites By Collagen, Arachidonic Acid, And ADP: Inhibition By A Monoclonal Antibody Top The Glycoprotein IIb-IIIa Complex," *Blood*, 1983, 61:140-148. (Exhibit 61)
- Thiagarajan and Kelly, "Exposure Of Binding Sites For Vitronectin On Platelets Following Stimulation," *J. Biol. Chem.*, 1988, 263:3035-3038. (Exhibit 62)
- June et al., "Role Of The CD28 Receptor In T-Cell Activation." *Immunology Today*, 1989, 11:211-2316. (Exhibit 63)

This statement should be considered because it is submitted before the mailing date of the first Office Action on the merits. The art cited in the PTO Form 1449 were previously of record in related parent application, U. S. Serial No. 08/228,208 and are not provided in accordance with 37 C.F.R. §1.98(d). The present application is a Continuation In Part of U.S. Serial No. 08/228,208 filed on April 15, 1994.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the references are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked

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as being considered and initialed by the Examiner, to the undersigned with the next official communication.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any additional fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 50-0306.

Respectfully submitted,

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By: *[Signature]*

Name: Michelle Ann Domingo

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

We are transmitting herewith the attached:

- Transmittal sheet, in duplicate, containing Certificate under 37 CFR 1.8.
- Information Disclosure Statement (37 C.F.R. §1.97 (d))
- Form 1449 (Information Disclosure Statement)
- Return postcard

Please charge any additional fees or credit overpayment to Deposit Account No. 50-0306. A duplicate of this sheet is enclosed.

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